

IF FREQUENCY RESPONSE CHARACTERIZATION EMPLOYING OVERLAPPING FREQUENCY BANDS

ABSTRACT OF THE INVENTION

A method and system characterizes an IF response of a receiver under test, such that an effect on the characterization by errors associated with uncertainties in knowledge of an RF stimulus signal used to perform the characterization is reduced. The method includes determining an estimate of an actual IF response of the receiver under test from IF responses of the receiver under test measured at overlapping frequency bands and a set of conversion coefficients computed therefrom, such that the estimate reduces the effect of the errors. The system includes a signal generator, an IF processor, a computer program, and a controller that controls the generator and the processor and executes the computer program. When a receiver under test is characterized, the receiver is connected between the signal generator, the IF processor and the controller. The computer program includes instructions that implement characterizing the receiver IF response.